

# SEQUENCE LISTING

<110> Thomas, Christopher  
 McPherson, Michael  
 Atkinson, Howard  
 Neelam, Anil

<120> Plant Cell Death System

<130> 9341-027

<150> 0025225.4  
 <151> 2000-10-14

<160> 18

<170> PatentIn Ver. 2.1

<210> 1  
 <211> 909  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> misc\_feature  
 <222> (1)..(48)  
 <223> N-terminal Domain

<220>  
 <221> misc\_feature  
 <222> (865)..(903)  
 <223> C-terminal Domain

<220>  
 <221> misc\_feature  
 <222> (484)..(558)  
 <223> Central Domain

<220>  
 <221> mutation  
 <222> (226)..(231)  
 <223> Sequence replacing removed SacI site

<220>  
 <221> misc\_feature  
 <222> (1)..(3)  
 <223> Initiation codon added via PCR primer

<220>  
 <221> misc\_feature  
 <222> (904)..(909)  
 <223> Stop codons added via PCR primer

<220>  
 <221> misc\_feature  
 <222> (1)..(24)  
 <223> Binding site for primer ProRIPBF

<220>  
 <221> misc\_feature  
 <222> (205)..(249)  
 <223> Binding site for primer RIPSDF  
  
 <220>  
 <221> misc\_feature  
 <222> Complement((205)..(249))  
 <223> Binding site for primer RIPSDF  
  
 <220>  
 <221> misc\_feature  
 <222> Complement((880)..(909))  
 <223> Binding site for primer ProRIPSR

<220>  
 <221> misc\_feature  
 <222> (49)..(73)  
 <223> Binding site for primer RIP1BF

<220>  
 <221> misc\_feature  
 <222> Complement((837)..(864))  
 <223> Binding site for primer RIP2SR

<220>  
 <221> misc\_feature  
 <222> (463)..(579)  
 <223> Binding site for primer RIPCDF spanning central domain

<220>  
 <221> misc\_feature  
 <222> Complement((463)..(579))  
 <223> Binding site for primer RIPCDF spanning central domain

<400> 1  
 atggccgaga taaccctaga gccgagtgat cttatggcgc aaacaaacaa aagaatagtg 60  
 ccaaagttca ctgaaatctt ccccggtggag gacgcgaact acccttacag cgccttcac 120  
 gcgctgggtcc ggaaagacgt gatcaaacac tgcaccgacc ataaagggtat cttccagccc 180  
 gtgctgccac cggagaagaa ggtcccggag ctatgggttct acacagaact gaaaactagg 240  
 accagctcca tcacgctcgc catacgcatg gacaacctgt acctcgtggg cttcaggacc 300  
 cggggcgggg tgtggtggga gttcggcaag gacggcgaca cccacctcct cggcgacaac 360  
 cccaggtggc tcggcttcgg cggcaggtac caggacctca tcggcaacaa gggctctggag 420  
 accgtcacca tgggcccgcgc cgaaatgacc agggccgtca acgacctggc gaagaagaag 480  
 aagatggcga cactggagga ggaggaggtg aagatgcaga tgcagatgcc ggaggccgct 540  
 gatctggcgg cggcggcgag ggctgaccca caggccgaca cgaagagcaa gctggtgaag 600

ctggtggtca tgggtgtgca ggggctgcgg ttcaacaccg tgtcccgac ggtggacgcg 660  
 ggggttcaaca gccagcacgg ggtgaccttg accgtgacgc aggggaagca ggtgcagaag 720  
 tgggacagga tctccaaggc ggccttcgag tgggctgacc accccaccgc tgtgatcccc 780  
 gacatgcaga agcttggcat caaggataag aacgaagcag cgaggatcgt tgcgctcggt 840  
 aagaatcaaa ctactgccgc tgccgctact gctgccagtg ctgacaacga cgacgacgag 900  
 gcctaataa 909

<210> 2  
 <211> 750  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> misc\_feature  
 <222> (1)..(3)  
 <223> Initiation codon added via PCR primer

<220>  
 <221> mutation  
 <222> (181)..(186)  
 <223> Sequence replacing removed SacI site

<220>  
 <221> misc\_feature  
 <222> (745)..(750)  
 <223> Stop codons added by PCR primer

<400> 2  
 atgaaaagaa tagtgccaaa gttcactgaa atcttccccg tggaggacgc gaactaccct 60  
 tacagcgctt tcatcgctc ggtccgaaa gacgtgatca aacactgcac cgaccataaa 120  
 gggatcttcc agcccgtgct gccaccggag aagaaggctc cggagctatg gttctacaca 180  
 gaactgaaaa ctaggaccag ctccatcacg ctgccatac gcatggacaa cctgtacctc 240  
 gtgggcttca ggaccccggg cgggggtgtg tgggagttcg gcaaggacgg cgacaccac 300  
 ctctcggcg acaaccccag gtggctcggc ttcggcgga ggtaccagga cctcatcggc 360  
 aacaagggtc tggagaccgt caccatgggc cgcgccgaaa tgaccagggc cgtcaacgac 420  
 ctggcgaaga agaagaaggc ggctgacca caggccgaca cgaagagcaa gctggtgaag 480  
 ctggtggtca tgggtgtgca ggggctgcgg ttcaacaccg tgtcccgac ggtggacgcg 540  
 ggggttcaaca gccagcacgg ggtgaccttg accgtgacgc aggggaagca ggtgcagaag 600  
 tgggacagga tctccaaggc ggccttcgag tgggctgacc accccaccgc tgtgatcccc 660  
 gacatgcaga agcttggcat caaggataag aacgaagcag cgaggatcgt tgcgctcggt 720

aagaatcaaa ctactgccgc tgcctaataa

750

<210> 3  
<211> 444  
<212> DNA  
<213> Zea mays

<220>  
<221> misc\_feature  
<222> (1)..(3)  
<223> Initiation codon added by PCR primer

<220>  
<221> mutation  
<222> (181)..(186)  
<223> Sequence replacing removed SacI site

<220>  
<221> misc\_feature  
<222> (439)..(444)  
<223> Stop codons added by PCR primer

<400> 3  
atgaaaagaa tagtgccaaa gttcactgaa atcttccccg tggaggacgc gaactaccct 60  
tacagcgctt tcatcgcgtc ggtccggaaa gacgtgatca aacactgcac cgaccataaa 120  
gggatcttcc agcccggtgct gccaccggag aagaagggtcc cggagctatg gttctacaca 180  
gaactgaaaa ctaggaccag ctccatcacg ctcgccatac gcatggacaa cctgtacctc 240  
gtgggcttca ggaccccggtg cgggggtgtgg tgggagttcg gcaaggacgg cgacaccac 300  
ctcctcggtc acaaccccag gtgggtcggc ttcggcggca ggtaccagga cctcatcggc 360  
aacaagggtc tggagaccgt caccatgggc cgcgccgaaa tgaccagggc cgtcaacgac 420  
ctggcgaaga agaagaagta ataa 444

<210> 4  
<211> 354  
<212> DNA  
<213> Zea mays

<220>  
<221> misc\_feature  
<222> (1)..(3)  
<223> Initiation codon added by PCR primer

<220>  
<221> misc\_feature  
<222> (349)..(354)  
<223> Stop codons added by PCR primer

<400> 4  
atggcggctg acccacaggc cgacacgaag agcaagctgg tgaagctggt ggtcatggtg 60  
tgcgaggggc tgcggttcaa caccgtgtcc cgcacggtgg acgcgggggt caacagccag 120  
cacggggtga ccttgaccgt gacgcagggg aagcaggtgc agaagtggga caggatctcc 180  
aaggcggcct tcgagtgggc tgaccacccc accgctgtga tccccgacat gcagaagctt 240  
ggcatcaagg ataagaacga agcagcgagg atcgttgcgc tcgttaagaa tcaaactact 300  
gccgctgccg ctactgctgc cagtgtgac aacgacgacg acgaggccta ataa 354

<210> 5  
<211> 43  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Description of Artificial Sequence: ProRIPBF  
primer  
<220>  
<221> misc\_feature  
<222> (1)..(19)  
<223> Introduced restriction sites

<400> 5  
actcgagtct agaggatcca tggccgagat aaccctagag ccg 43

<210> 6  
<211> 49  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Description of Artificial Sequence: ProRIPSR  
primer  
<220>  
<221> misc\_feature  
<222> (1)..(19)  
<223> Introduced restriction sites

<400> 6  
gactagtgtc gacgagctct tattaggcct cgtcgtcgtc gttgtcagc 49

<210> 7  
<211> 47  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: RIP1BF primer

<220>  
<221> misc\_feature  
<222> (1)..(19)  
<223> Introduced restriction sites

<400> 7  
gctcgagtct agaggatcca tgaaaagaat agtgccaaag ttcactg

47

<210> 8  
<211> 53  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: RIP2SR primer

<220>  
<221> misc\_feature  
<222> (1)..(19)  
<223> Introduced restriction sites

<400> 8  
gactagtgtc gacgagctct tattaggcag cggcagtagt ttgattctta acg

53

<210> 9  
<211> 53  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: RIP1SR primer

<220>  
<221> misc\_feature  
<222> (1)..(19)  
<223> Introduced restriction sites

<400> 9  
aactagtgtc gacgagctct tattacttct tcttcttcgc caggtcggtg acg

53

<210> 10  
<211> 51  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: RIP2BF primer

<220>  
 <221> misc\_feature  
 <222> (1)..(19)  
 <223> Introduced restriction sites  
  
 <400> 10  
 actcgagtct agaggatcca tggcggctga cccacaggcc gacacgaaga g 51

<210> 11  
 <211> 42  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: RIPCDF primer

<400> 11  
 gacctggcga agaagaagaa ggcggctgac ccacaggccg ac 42

<210> 12  
 <211> 42  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: RIPCDR primer

<400> 12  
 gtcggcctgt gggtcagccg ccttcttctt cttcgccagg tc 42

<210> 13  
 <211> 45  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: RIPSDF primer

<220>  
 <221> mutation  
 <222> (22)..(27)  
 <223> Nucleotides modified to remove SacI site

<400> 13  
 ccggagctat ggttctacac agaactgaaa actaggacca gctcc 45

<210> 14  
 <211> 45  
 <212> DNA  
 <213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: RIPSDR primer

<220>  
<221> mutation  
<222> (19)..(24)  
<223> Nucleotides modified to remove SacI site

<400> 14  
ggagctgggc ctagttttca gttctgtgta gaaccatagc tccgg

45

<210> 15  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: SUB21 primer

<400> 15  
ctcttgcttg aattcggact a

21

<210> 16  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: SUB25 primer

<400> 16  
tagtccgaat tcaagcaaga gcaca

25

<210> 17  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: LDT15 primer

<400> 17  
gacagaagcg gatccttttt tttttttttt

30

<210> 18  
<211> 381  
<212> DNA  
<213> Nicotiana tabacum



[illegible]